

NASA-CR-193754



AREA OF HEALTH AND
HUMAN PERFORMANCE STUDIES

THE UNIVERSITY OF ALABAMA
College of Education

December 12, 1991

Stan Goldstein, Ph.D.
Code AHU
NASA\JSC
Houston, TX 77058

Dear Dr. Goldstein:

Enclosed is the Final Report for #NAG9-478, Human Body
Fluid Changes in Simulated Space Flight.

Thank you for your support.

Sincerely,


Phillip A. Bishop
Director
Human Performance Laboratory

cc: NASA Science and Technology Information Facility
PO Box 8757
Baltimore\Washington International Airport, MD 21240

(NASA-CR-193754) HUMAN BODY FLUID
CHANGES IN SIMULATED SPACE FLIGHT
Final Report (Alabama Univ.) 2 p

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Final Report
#NAG9-478
Human Body Fluid Changes in Simulated Space Flight

The following were accomplished:

- 1) The gas chromatograph was set up and operated.
- 3) A technician was trained to generate deuterium/protium gas mixtures and introduce samples into the gas chromatograph.
- 4) Saliva samples were harvested, processed, and sub-divided for duplicate analysis at Johnson Space Center (JSC) and the University of Alabama.
- 5) Attempts to calibrate have begun. Successful calibration has not been achieved due to the transfer of the P.I. to JSC for a 14 month tour as a USRA visiting scientist.
- 6) Our progress has been slowed by a lack of in-stock support supplies and parts.
- 7) Contact with the Nutritional Biochemistry Laboratory and the Stable Isotope Laboratory at JSC reveals that their TBW system still remains essentially inoperable. When the JSC system is made functional, it will facilitate putting the gas chromatography system in operation by providing a criterion reference.
- 8) Work will resume on this project upon the P.I.'s return to Alabama in the Fall of 1992. Continued contact with Dr.'s Lane and Gretebeck will be maintained to foster coordination of on-going efforts.